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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,754	11/26/2003	Ralph I. Larson	HTI-019BUS	7292
22494 7590 03/09/2007 DALY, CROWLEY, MOFFORD & DURKEE, LLP			EXAMINER	
SUITE 301A 354A TURNPIKE STREET CANTON, MA 02021-2714			FLANIGAN, ALLEN J	
			ART UNIT	PAPER NUMBER
·			3744	•
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/09/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/722,754	LARSON, RALPH I.	
Office Action Summary	Examiner	Art Unit	_
	Allen J. Flanigan	3744	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a re will apply and will expire SIX (6) MONT e, cause the application to become ABA	CATION.  sply be timely filed  IHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	<u>_</u> .		
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	s action is non-final.		
3) Since this application is in condition for allowa	ance except for formal matte	ers, prosecution as to the merits is	
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
<ul> <li>4)  Claim(s) 44-65 is/are pending in the application 4a) Of the above claim(s) is/are withdrates.</li> <li>5)  Claim(s) 44-55 is/are allowed.</li> <li>6)  Claim(s) 56 and 61 is/are rejected.</li> <li>7)  Claim(s) 57-60 and 62-65 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) acc	cepted or b)□ objected to b	y the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	•	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Apprity documents have been roughly (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		ummary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		)/Mail Date formal Patent Application 	

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 56 and 61 are rejected under 35 U.S.C. 102(b) as being anticipated by Wattellet et al.

See the embodiment shown in Figs. 1-4 of Wattelet et al. Note surface enhancements 60 indicated in the drawings that can comprise "louvers" or "slits" (lines 50-52 of column 4). These read on the claimed "at least one aperture in a side wall thereof". Note tapered tower 24 regarding the claimed "slug" with fin mounting surfaces 26 readable on the claimed "first and second opposing surfaces" of claim 56, and the claimed "top surface and a bottom surface" of claim 61. The claimed "first axis" of claim 61 is readable on an axis normal to either of the surfaces 26, for example.

Claims 57-60 and 62-65 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 44-55 are allowed.

Applicant's arguments with respect to claims 56 and 61 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**.

See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen J. Flanigan whose telephone number is (571) 272-4910. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Allen J. Flanigan Primary Examiner

Art Unit 3744

AJF